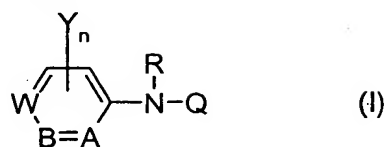


Claims:

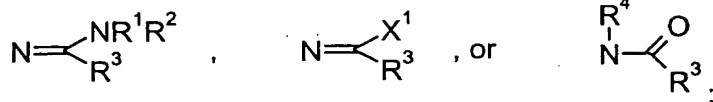
1. The use of compounds of formula I



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wherein

Q is



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X^1 is chlorine, bromine, or fluorine;

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R^1, R^2 are each independently hydrogen, C_1 - C_{10} -alkyl, C_3 - C_{10} -alkenyl, C_3 - C_{10} -alkynyl, or C_3 - C_{12} -cycloalkyl, C_1 - C_6 -alkylamino, di(C_1 - C_6 -alkyl)-amino, C_1 - C_6 -alkylcarbonylamino, C_1 - C_6 -alkylsulfonyl, or C_1 - C_6 -alkylsulfinyl, wherein the carbon atoms in these groups may be substituted with

20

1 to 3 halogen, hydroxy, nitro, cyano, amino, mercapto, C_1 - C_6 -alkoxy, C_1 - C_6 -haloalkoxy, C_1 - C_6 -alkylthio, C_1 - C_6 -haloalkylthio, C_1 - C_6 -alkylsulfonyl, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -haloalkylsulfonyl, C_1 - C_6 -haloalkylsulfinyl, or C_3 - C_6 -cycloalkyl which may be substituted with 1 to 3 $R^\#$ groups, or

25

$R^\#$ is halogen, cyano, nitro, hydroxy, mercapto, amino, C_1 - C_6 -alkoxy, C_2 - C_6 -alkenyloxy, C_2 - C_6 -alkynyloxy, C_1 - C_6 -haloalkoxy, C_1 - C_6 -alkylthio, or C_1 - C_6 -haloalkylthio, C_1 - C_6 -alkylsulfonyl, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -alkylamino, di(C_1 - C_6 -alkyl)-amino, C_1 - C_6 -alkylcarbonyl, C_1 - C_6 -alkoxycarbonyl, or di(C_1 - C_6)-alkylaminocarbonyl;

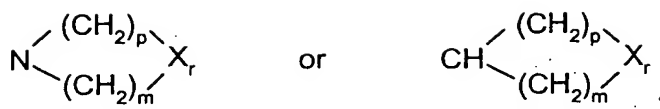
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formyl, C_1 - C_6 -alkylcarbonyl, $C(=O)NR^aR^b$, CO_2R^c , R^d , R^e , phenyl which may be substituted with 1 to 3 $R^\#$ groups, or pyridyl which may be substituted with 1 to 3 $R^\#$ groups,

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R^a, R^b, R^c are each independently hydrogen or C_1 - C_4 -alkyl which may be substituted with 1 to 3 groups $R^\#$;

R^d is NR^iR^j or



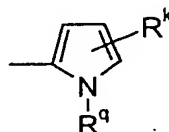
R^i, R^j are each independently hydrogen or $\text{C}_1\text{-C}_4$ -alkyl which may be substituted with 1 to 3 groups $\text{R}^\#$;

p, m are each independently 0, 1, 2, or 3, with the proviso that p and m are not both 0.

X is oxygen, sulfur, amino, $\text{C}_1\text{-C}_4$ -alkylamino, or phenylamino, or, if p is 0 then X can also be phenoxy or $\text{C}_1\text{-C}_6$ -alkoxy;

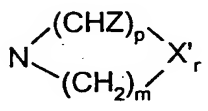
r is 0 or 1;

R^e is



R^k, R^a are each independently hydrogen or $\text{C}_1\text{-C}_4$ -alkyl which may be substituted with 1 to 3 groups $\text{R}^\#$; or

R^1 and R^2 may be taken together to form a ring represented by the structure



p, m are 1, 2 or 3;

X' is oxygen, sulfur, amino, $\text{C}_1\text{-C}_4$ -alkylamino, phenylamino, or methylene;

Z is $\text{C}_1\text{-C}_4$ -alkyl or phenyl;

R^3 is hydrogen, $\text{C}_1\text{-C}_{10}$ -alkyl, $\text{C}_2\text{-C}_{10}$ -alkenyl, $\text{C}_2\text{-C}_{10}$ -alkynyl, $\text{C}_3\text{-C}_{12}$ -cycloalkyl, wherein the carbon atoms in these groups may be partially or fully halogenated or substituted with

1 to 3 cyano, nitro, hydroxy, mercapto, amino, $\text{C}_1\text{-C}_6$ -alkyl, $\text{C}_3\text{-C}_6$ -cycloalkyl, $\text{C}_1\text{-C}_6$ -alkoxy, $\text{C}_1\text{-C}_6$ -alkylamino, $\text{di}(\text{C}_1\text{-C}_6\text{-alkyl})$ -amino, $\text{C}_1\text{-C}_6$ -alkylthio, $\text{C}_1\text{-C}_6$ -alkylsulfonyl, or $\text{C}_1\text{-C}_6$ -alkylsulfinyl groups, wherein the carbon atoms in these groups may be substituted by

1 to 3 halogen atoms, a 5- to 6-membered aromatic ring system which may contain 1 to 4 heteroatoms selected from

oxygen, sulfur and nitrogen and which may be substituted with any combination of 1 to 5 halogen atoms, 1 to 3 C₁-C₆-alkyl, C₁-C₆-alkylthio, C₁-C₆-alkylsulfonyl, C₁-C₆-alkylsulfinyl, C₁-C₆-alkoxy, nitro, or cyano groups, wherein the carbon atoms in these groups may be substituted by 1 to 3 halogen atoms, or

phenoxy, which may be substituted with any combination of 1 to 5 halogen atoms, 1 to 3 C₁-C₆-alkyl, C₁-C₆-alkylthio, C₁-C₆-alkylsulfonyl, C₁-C₆-alkylsulfinyl, C₁-C₆-alkoxy, nitro, or cyano groups, wherein the carbon atoms in these groups may be substituted by 1 to 3 halogen atoms, or

a 3- to 6-membered saturated or partially unsaturated ring system which contains 1 to 3 heteroatoms selected from oxygen, sulfur and nitrogen and which may be substituted with any combination of 1 to 5 halogen atoms, 1 to 3 C₁-C₆-alkyl, C₁-C₆-alkylthio, C₁-C₆-alkylsulfonyl, C₁-C₆-alkylsulfinyl, C₁-C₆-alkoxy, nitro, or cyano groups, wherein the carbon atoms in these groups may be substituted by 1 to 3 halogen atoms,

a 3- to 6-membered saturated or partially unsaturated ring system which contains 1 to 3 heteroatoms selected from oxygen, sulfur and nitrogen and which is unsubstituted or substituted with any combination of 1 to 5 halogen atoms, 1 to 3 C₁-C₆-alkyl, C₁-C₆-alkylthio, C₁-C₆-alkylsulfonyl, C₁-C₆-alkylsulfinyl, C₁-C₆-alkoxy, C₁-C₆-haloalkoxy, nitro, or cyano groups, wherein the carbon atoms in these groups may be substituted by 1 to 3 halogen atoms;

R, R⁴ are each independently hydrogen or C₁-C₆-alkyl, C₁-C₆-alkoxycarbonyl, C₁-C₆-alkylaminocarbonyl, or di(C₁-C₆-alkyl)-aminocarbonyl, wherein the carbon atoms in these groups may be substituted with 1 to 3 groups R[#];

A is C-R⁵ or N;

B is C-R⁶ or N;

W is C-R⁷ or N;

with the proviso that one of A, B and W is other than N;

R^5 , R^6 , R^7 are each independently hydrogen, halogen, nitro, cyano, amino, mercapto, hydroxy, C_1 - C_{10} -alkyl, C_2 - C_{10} -alkenyl, C_2 - C_{10} -alkynyl, C_3 - C_6 -cycloalkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -alkylamino, di(C_1 - C_6 -alkyl)-amino, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylsulfonyl, or C_1 - C_6 -alkylsulfinyl, wherein the carbon atoms in these groups may be substituted with 1 to 3 groups $R^\#$

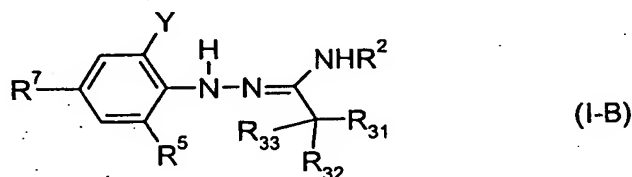
a 5- to 6-membered aromatic ringsystem which may contain 1 to 4 heteroatoms selected from oxygen, sulfur and nitrogen and which may be substituted with any combination of 1 to 5 halogen atoms, 1 to 3 C_1 - C_6 -alkyl, C_1 - C_6 -haloalkyl, C_1 - C_6 -alkylthio, C_1 - C_6 -haloalkylthio, C_1 - C_6 -alkylsulfonyl, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -haloalkylsulfonyl, C_1 - C_6 -haloalkylsulfinyl, C_1 - C_6 -alkoxy, C_1 - C_6 -haloalkoxy, mercapto, hydroxy, amino, nitro, or cyano groups, wherein the carbon atoms in these groups may be substituted with 1 to 3 groups $R^\#$;

Y is hydrogen, halogen, cyano, nitro, amino, hydroxy, mercapto, C_1 - C_6 -alkyl, C_2 - C_{10} -alkenyl, C_2 - C_{10} -alkynyl, C_3 - C_6 -cycloalkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -alkylamino, di(C_1 - C_6)-alkylamino, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylsulfonyl, or C_1 - C_6 -alkylsulfinyl, wherein the carbon atoms in these groups may be substituted with 1 to 3 groups $R^\#$;

n is 0, 1, or 2;

or the enantiomers or diastereomers, veterinarily acceptable salts or esters thereof, for combating parasites in and on animals.

2. The use according to claim 1 wherein the compounds of formula I are compounds of formula I-B



wherein

R^7 is chlorine or trifluoromethyl;

R^5 and Y are each independently chlorine or bromine;

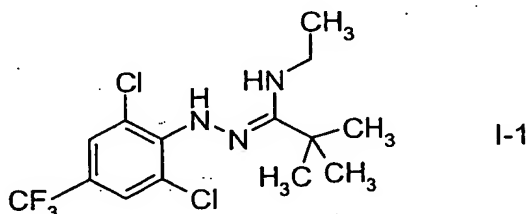
R^2 is C_1 - C_6 -alkyl, C_3 - C_6 -alkenyl, C_3 - C_6 -alkynyl, or C_3 - C_6 -cycloalkyl which may be substituted with 1 to 3 halogen atoms, or C_2 - C_4 -alkyl which is substituted by C_1 - C_4 -alkoxy;

5 R^{31} and R^{32} are C_1 - C_6 -alkyl or may be taken together to form C_3 - C_6 -cycloalkyl which may be unsubstituted or substituted by 1 to 3 halogen atoms;

R^{33} is hydrogen or C_1 - C_6 -alkyl,

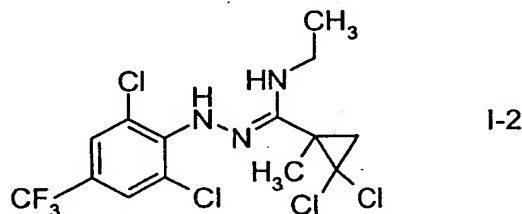
10 or the enantiomers or veterinarily acceptable salts thereof.

3. The use according to claims 1 or 2 wherein the compound of formula I is a compound of formula I-1.



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4. The use according to claims 1 or 2 wherein the compound of formula I is a compound of formula I-2.



20 5. The use as claimed in claims 1 to 4 wherein the parasites are selected from the Diptera, Siphonaptera, and Ixodida orders.

6. The use as claimed in claims 1 to 5 wherein the animals are cats or dogs.

25 7. A method for treating, controlling, preventing or protecting animals against infestation or infection by parasites which comprises orally, topically or parenterally administering or applying to the animals a parasitocidally effective amount of a compound of formula I as defined in any one of claims 1 to 4.

30 8. The method as claimed in claim 7 wherein the parasites are selected from the Diptera, Siphonaptera, and Ixodida orders.

9. The method as claimed in claims 7 or 8 wherein the animals are cats or dogs.

10. A process for the preparation of a composition for treating, controlling, preventing or protecting animals against infestation or infection by parasites which comprises a parasitically effective amount of a compound of formula I as defined in any one of claims 1 to 4.
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